

\$		22222222 22 22 22 22 22 22 22 22 22 22		\$	######################################
	\$				

1 8

••••

VAX-11 Bliss-32 V4.0-742 CCLIUTL.SRCJSETCLUSTR.B32;1

00013 00005 00005 00006 00006 00007 00016 00016 00016 00017 00017 00017 00023 00023 00023 00023 00033 00033 00033 00033 00033 0003 MODULE IDENT - VO4-000 LANGUAGE (BLISS32), ADDRESSING\_MODE (EXTERNAL = GENERAL, NONEXTERNAL=LONG\_RELATIVE) BEGIN COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED. 11111111111112222222222233333333333444444 THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED. THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION. DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. ++ FACILITY: SET CLUSTER ABSTRACT: AUTHOR: Paul R. Beck

Implement SET CLUSTER qualifiers

19-FEB-1984

DATE:

**REVISION HISTORY:** 

V03-001 DAS0001

David Solomon

09-Jul-1984 Fix truncation errors; make nonexternal refs LONG\_RELATIVE.

```
16-Sep-1984 00:42:29
14-Sep-1984 12:09:00
SETCLUSTR
V04-000
                                                                                                                                                          VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETCLUSTR.B32;1
                                         LIBRARY 'SYSSLIBRARY: LIB';
LIBRARY 'SYSSLIBRARY: CLIMAC.L32';
      44555555555556666666666777777777778888888
                                                                                                                ! CLI macros
                                             External routines
                                         EXTERNAL ROUTINE
set$validate_quorum,
cli$present,
cli$get_value,
lib$put_output,
lib$cvt_dtb;
                                                                                                                ! Validate and set new quorum value
! Get qualifiers
! Get values of qualifiers
! $PUT message to SYS$OUTPUT
! Convert ASCII to numerical
                                             Literal data definitions
                                         LITERAL
                                                 true = 1 false = 0;
                                             Declare the error messages
                                               Definitions in [CLIUTL.SRC]SET.MSG
                                         EXTERNAL LITERAL set$_nocluster, set$_syntax;
                           0069
0070
0071
0072
0073
0074
0075
0076
0079
0080
0081
0082
                                                                                                                   node not in cluster
                                                                                                                ! syntax error
                                             Routines used in this module
                                         FORWARD ROUTINE
                                                set$cluster:
                                                                                                                ! Analyze qualifiers for SET CLUSTER
                                            Macros to generate a string with a descriptor.
                                         MACRO
                                                       ASCIDEJ=%CHARCOUNT(%REMAINING), ! string descriptor UPLIT BYTE(%REMAINING)%;
```

Page

```
M 8
16-Sep-1984 00:42:29
14-Sep-1984 12:09:00
SETCLUSTR
V04-000
                                                                                                                                   VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETCLUSTR.B32;1
                       SET$CLUSTER
                       14344567890123345678901234567890
1144456789012345678901234567890
                                         clusgl_club;
                                                                                                                        ! =0 if no cluster
                                      Verify that caller has sufficient privileges. SYSPRV, OPER and CMKRNL are required.
                                                                         (ENBFLG = 1,
PRVADR = 0,
PRMFLG = 1,
PRVPRV = o(dpriv))
                                                                                                              Enable
No new privileges
Permanent privs
Store current ones here
                                    IF NOT (status = $SETPRV
                                   THEN SIGNAL_STOP (.status);
                                      Check to see if privileges there. If not, return error.
                                   IF NOT .oldpriv [prv$v_oper] THEN status = SS$_NOOPER;
IF NOT .status
THEN
                                         BEGIN
                                         SIGNAL (.status);
RETURN false;
                                         END:
                                      If this node is not in a cluster, there's not much point in proceeding.
                                   IF .clu$gl_club EQL 0
THEN
                                         BEGIN
SIGNAL (set$_nocluster);
RETURN false;
                                         END:
```

Page

(3)

SEVO	229 230 231 233 233 233 235	R		022 022 022 023 023 023	UORU 67 89 01 12	M =	RET END URN	URN ; true	true	\$put	t_out	put	( out	tput	] desc		984 00:42 984 12:09	2:29 VAX-11 BLiss-32 V4.0-742 0:00 [CLIUTL.SRC]SETCLUSTR.B32:1	Page 6 (4)
20 21	2C 2C	4D 73	55 69	52 20	4F 6D	55 75	51 72 00	2D 6F 00	49 75 40 40	20 71 55	54 20 52 52	4F	53 65 57 55 10E00	51	0002¢ 00030	P.AAC: P.AAB: P.AAE: P.AAD:	.ASCII .LONG .ADDRES .ASCII .LONG	3 \QUORUM\<0><0> 17694726 SS P.AAC \QUORUM\<0><0> 17694726	
													00000				.PSECT CTRSTR: .LONG .ADDRES .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN	SET\$VALIDATE_QUORUM CLI\$PRESENT, CLI\$GET_VALUE LIB\$PUT_OUTPUT, LIB\$CVT_DTB SET\$_NOCLUSTER, SET\$_SYNTAX CLU\$GL_CLUB, SYS\$SETPRV SYS\$FAO	:
						05		00000 00000 F		7E 00 52 09 00 AD 52 04		F 54 F 8	05022102F22E	000E9F00PFE0C8D0115	00000 00002 00009 000011 00013 00016 00020 00023 00025 00036 00038 00038	1\$: 2\$: 3\$:	PSECT  ENTRY MOVAB MOVAB PUSHAB PUSHL MOVQ CALLS MOVL BLBS PUSHL CALLS BBS MOVZWL BLBS PUSHL BLBS PUSHL BTSTL	SETSCLUSTER, Save R2,R3 LIB\$SIGNAL, R3 -172(SP), SP OLDPRIV #1 #1, -(SP) #4, SYS\$SETPRV R0, STATUS STATUS, 1\$ STATUS, 1\$ STATUS, 1\$ STATUS #1, LIB\$STOP #2, OLDPRIV+2, 2\$ #10388, STATUS STATUS, 3\$ STATUS, 3\$ CLU\$GL_CLUB	0122 0148 0149 0153 0154 0157 0163

SETCLUSTR V04-000	/QUORUM = q			16-Sep-19	984 00:42 984 12:09	:29	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETCLUSTR.B32;1	Page 7
		63 000000006 0C 8F 01	12	2 00043 00045 00048 1 0004E 1 00051 2 00051 3 00067 4 00067 4 00067 6 00072 6 00072 6 00075 7 00084 8 00084 8 00084 8 00084 8 00087 8 00087 8 00087 8 00088 8 00087 8 00088 8 00087 8 00088 8 0088 8 0088 8 0088 8 0088 8 0088 8 00888 8 00888 8 00888 8 00888 8 00888 8 00888 8 00888	BNEQ PUSHL CALLS BRW MOVL CLRL MOVL CLRL MOVAB CLRW MOVAB CLRW MOVAB CALLS BLBC CALLS BLBC CALLS BLBC CMPL PUSHL MOVZWL CALLS BLBC CMPL PUSHL PU	5\$	S NOCLUSTER LTB\$SIGNAL	0166
	FO	AD 020E0000 00C8	DEB104040498E4EE	0004E 0 00051 58:	BRW	10\$	71034 DECC	0167 0174
	10	AE 020E0000 8F	04	00059	CLRL	DESC	11736, DESC +4 71036 EAD DESC	0175
	08	AE 020E0000 8F	04	00064	CLRL	FAO	71936, DESC 144 71936, FAO_DESC DESC+4 71936, OUTPUT_DESC UT_DESC+4 PAO_DESC BUFFER, FAO_DESC+4 UT_DESC BUFFER, OUTPUT_DESC+4 BCLISPRESENT STATUS US, 98 DCLISGET_VALUE	0176
		AE 84 8F	D4	0006F	CLRL	OUTPI	UT DESC+4	•
	10	AE 84 8F AE 18 AE 08 AE	9E	00077 0007C	MOVAB	FAO	BUFFER, FAO_DESC+4	0178
	0C	AE 00000000 AE AE	9E	0007F 00084	MOVAB	FAO I	BUFFER, OUTPUT_DESC+4	0177 0178 0179 0180 0182
	00000000G	00 01 52 50 7E 52	FB	0008A 00091	CALLS	#1. RO.	CLISPRESENT STATUS	
		7E 52	E 9	00094	BLBC PUSHAB	STATI	US, 9\$	0183 0195
	000000006	00000000° EF 00 04 02 50	9F 9F FB E8	0009A 000A0	PUSHAB	P.AAI	D CLI\$GET_VALUE	
	*1	04 50 6E	E8	000A7	BLBS	RO,	6\$ UM	0197
		2C 5E	00	000AC 000AE 68:	BRB PUSHL	8\$ SP		:
	*******	AD 020E0000 8F AD AE 020E0000 8F AE 020E0000 8F AE 84 AE 18 AE 08 AE 18	DD 30 FB	000B0 000B3	PUSHL	DESC	(SP)	0199 0200 0199
	000000006	7E FO AD 03 03 50 8F 6E	E9	000B7 000BE	BLBC	#5, R0,	IBSCVT_DTB	
	0000FFFF	10	15 9F	00000	BLEQ	8\$	UM, #65535	0202
		FO AD 01	DD DD	000CD	PUSHAB	#1	A AMARAM	0208
			FB 11	3 000CF	CALLS	#3. I	S SYNTAX LIBSSIGNAL	2200
		04 AE 04 AE	9F	000DA 85:	PUSHAB	NEW (	DUORUM	0209 0215
	0000000G	00 04 02	FB	000EQ	CALLS	#2,	SETSVALIDATE_QUORUM	
		00 02 52 28 52	DDB DD9 DD9 DD9 DD9 PF	OODEA	BLBC	STATI	US, 9\$	0216
		04 AE	13	000F0	BEQL	9\$	DUDRUM	0224
		04 AE 14 AE 10 AE	9F	000F5	PUSHAB	FAO	DESC	0224
	000000006	00000000 EF	9F	000FB 00101	PUSHAB	QUOR	UM_CTRSTR	
	0000000	04 AE 04 AE 04 AE 052 28 04 AE 23 04 AE 23 04 AE 10 AE 10 AE 10 AE 00 00000000 BF 00 01 01	FB9FB0044	00108 0010B 0010E 00115 9\$: 00118 00119 10\$:	PUSHL CALLS BRB PUSHAB PUSHL CALLS MOVL BLBC TSTL BEQL PUSHAB PUSHAB PUSHAB CALLS BLBC PUSHAB CALLS MOVL RET	RO.	B_SYNTAX LIB\$SIGNAL DUORUM SET\$VALIDATE_QUORUM STATUS US. 9\$ DUORUM DUORUM DESC UT_DESC UT_DESC UT_DESC LIB\$PUT_OUTPUT	0226
	000000006	00 01 50 01	FB	0010E 00115 98:	CALLS	#1.	IBSPUT_OUTPUT	0231
		50	04	00118	RET	RO		0232
		,,,	04	0011B	CLRL	NO		: 0232

; Routine Size: 284 bytes. Routine Base: \$CODE\$ + 0000

SETCLUSTR V04-000

/QUORUM = q

0 9 16-Sep-1984 00:42:29 14-Sep-1984 12:09:00

VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETCLUSTR.B32:1

Page 8 (4)

.

E 9 16-Sep-1984 00:42:29 14-Sep-1984 12:09:00 SETCLUSTR V04-000 VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETCLUSTR.B32;1 Page /QUORUM = q 237 1 END 0 ELUDOM .EXTRN LIB\$SIGNAL, LIB\$STOP PSECT SUMMARY Name Bytes Attributes 68 NOVEC, NOWRT, RD , NOEXE, NOSHR, LCL, REL, 8 NOVEC, WRT, RD , NOEXE, NOSHR, LCL, REL, 284 NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) SPLITS SOWNS **\$CODE\$** Library Statistics ----- Symbols -----Pages Processing File Total Loaded Percent Mapped Time \$255\$DUA28:[SYSLIB]LIB.L32;1 \$255\$DUA28:[SYSLIB]CLIMAC.L32;1 14 00:01.9 18619 1000 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:SETCLUSTR/OBJ=OBJ\$:SETCLUSTR MSRC\$:SETCLUSTR/UPDATE=(ENH\$:SETCLUSTR) Size: 284 code + 76 data bytes Run Time: 00:07.6 Elapsed Time: 00:29.5 Lines/CPU Min: 1852 Lexemes/CPU-Min: 11715 : Memory Used: 103 pages : Compilation Complete

0052 AH-BT13A-SE

## DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

